

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT

MARCUS A. HORWITZ

FILING DATE

November 23, 1993

GROUP

1806

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING D IF APPROP.
KAC	AA	3	8	8	8	8	3	7	06/10/75	TSUMITA ET AL.	260	112.5	06/28/
	AB	3	9	4	3	1	1	9	03/09/76	TSUMITA ET AL.	260	112.5R	03/28/
	AC	4	1	2	3	4	2	7	10/31/78	DANIEL	260	112B	07/27/
	AD	4	4	6	0	5	0	3	07/17/84	SAVRDA ET AL.	260	112.5R	03/15/
	AE	4	7	2	4	1	4	4	02/09/88	ROOK ET AL.	424	88	08/29/
	AF	4	7	7	7	1	3	0	10/11/88	MAES	435	7	12/05/
	AG	4	9	0	6	7	4	2	03/06/90	YOUNG ET AL.	536	27	07/31/
	AH	4	9	5	2	3	9	5	08/28/90	SHINNICK ET AL.	424	92	02/26/
	AI	4	9	6	5	1	9	2	10/23/90	MAES	435	7	04/29/
	AJ	4	9	7	6	9	5	8	12/11/90	SHINNICK ET AL.	424	92	02/24/
	AK	5	1	0	8	7	4	5	04/28/92	HORWITZ	424	92	08/16/

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER							PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLAT	
KAC	AL	WO	85	0	3	6	3	9	29 AUG 85	PCT	A61K	39/04	YES	
	AM	WO	88	0	2	0	2	7	24 MAR 88	PCT	C12N	15/00	X	
	AN	WO	88	0	5	8	2	3	11 AUG 88	PCT	C12N	15/00	X	
	AO	WO	88	0	6	6	2	6	07 SEP 88	PCT	C12N	15/00	X	
	AP	WO	89	0	5	8	2	5	29 JUN 89	PCT	C07K	13/00	X	

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAC	AQ	E. Ribí et al., "Induction of Resistance to Tuberculosis in Mice. . . Unrelated Materials," 1982, 345-356, Zbl.Bakt.Hyg., I.
	AR	E. Freerksen, "Kommentare Tuberkulose-Schutzimpfung," 1982, 1564-1569, Dtsch.med.Wschr.
	AS	H.D.Eberhard, "Leser-Zuchriften - Tuberkulose-Schutzimpfung," 1982, 1821-1822, Dtsch.med.Wschr.

EXAMINER

Karen A. Ganello

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4/8/03

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KAL	BA	5 1 5 4 9 2 3	10/13/92	VAN EDEN ET AL.	434	88	12/21
	BB	5 1 6 9 9 4 0	12/08/92	PATARROYO	536	27	02/11
	BC	5 1 7 1 8 3 9	12/15/92	PATARROYO	530	326	12/15
	BD	5 2 2 5 3 2 4	07/06/93	McFADDEN ET AL.	435	6	04/14
	BE	5 2 5 4 4 5 9	10/19/93	PATARROYO	435	6	09/04
	BF	5 2 6 8 1 7 0	12/07/93	VAN EDEN ET AL.	424	92	09/17
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	BI						
	BJ						
	BK						

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KAL	BL	WO 89 1 2 4 5 5	28 DEC 89	PCT	A61K	37/02	X
	BM	WO 90 0 0 5 9 4	25 JAN 90	PCT	C12N	1/21	X
	BN	WO 90 0 2 5 6 4	22 MAR 90	PCT	A61K	39/005	X
	BO	WO 90 1 5 8 7 3	27 DEC 90	PCT	C12N	15/74	X
	BP	WO 91 1 4 4 4 8	03 OCT 91	PCT	A61K	39/Q4	X

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	BQ	H. Hahn, "Antibacterial Defence Mechanisms," 1983, S112-S121, Infection II (1983) Suppl.2
KAL	BR	I.M. Orme & F.M. Collins, "Infection with Mycobacterium kansasii and efficacy of vaccination against tuberculosis," 1983, 581-586, Immunology
KAL	BS	P.H. Lagrange et al., "Immunological Mechanisms Controlling Mycobacterial Infections," 1983, 163-172, Bull.europ.Physiopath.resp.

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	CM	WO 92 0 1 7 9 6	06 FEB 92	PCT	C12N	15/00	X
	CN	WO 92 0 4 4 6 2	19 MAR 92	PCT	C12N	15/74	X
	CO	0 4 9 9 0 0 3	19 AUG 92	EUROPEAN PATENT OFFICE	C12P	21/02	X
	CP	WO 92 1 6 6 2 8	01 OCT 92	PCT	C12N	15/31	X

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	CQ	R.A. Young et al., "Dissection of <i>Mycobacterium tuberculosis</i> antigens using recombinant DNA," May 1985, 82:2583-2587, <i>Proc.Natl.Acad.Sci. USA</i>
KAL	CR	B.R. Bloom et al., "Genes for the protein antigens of the tuberculosis and leprosy bacilli," 1985, 5:839-845, <i>Science Reports</i>
KAL	CS	S.H.E.Kaufmann, "T Cell Clones and their Products: . . . Infections," 1985, S177-S182, <i>Infection 13 (1985) Suppl.2</i>

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Karen D. Gamella

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MARCUS A. HORWITZ

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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KAL	DL	WO 92 2 1 3 7 6	10 DEC 92	PCT	A61K	39/12	X
	DM	WO 92 2 1 6 9 7	10 DEC 92	PCT	C07K	7/00	X
	DN	WO 92 2 1 7 5 8	10 DEC 92	PCT	C12N	15/31	X ^o
	DO	O 5 1 9 2 1 8	23 DEC 92	EUROPEAN PATENT OFFICE	C12N	15/31	
	DP	WO 92 2 2 3 2 6	23 DEC 92	PCT	A61K	39/04	X

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

		ABSTRACT
KAL	DQ	E. Krambovitis, "Detection of antibodies to <i>Mycobacterium tuberculosis</i> plasma . . . assay," 1986, 21:257-264, <i>Med. Microbiol.</i>
	DR	D. Young et al., "Immunological Activity. . . <i>Mycobacterium tuberculosis</i> , Oct. 1986, 177-183, <i>Infection and Immunity</i> , Vol. 54, No. 1
	DS	F. Emmrich et al., "A Recombinant 64 Kilodalton Protein. . . <i>Mycobacteria</i> Antigens," Apr. 1986, 163:1024-1029, <i>J. Exp. Med.</i>
	DT	A.S. Mustafa et al. "Characteristics of human T-cell clones. . . patients 1986, 57:123-130, <i>Sympos. on the IMMUNOLOGY OF LEPROSY, Lepr. rev. Suppl.</i>

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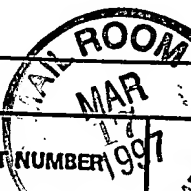
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLA YES
KAC	EL	WO 93 0 7 8 9 7	29 APR 93	PCT	A61K	39/04	X
	EM	WO 93 0 8 2 8 4	29 APR 93	PCT	C12N	15/31	X ^o
	EN	WO 93 1 4 1 1 8	22 JUL 93	PCT	C07K	7/06	X
	EO	WO 93 1 4 7 8 9	05 AUG 93	PCT	A61K	45/05	X
	EP	WO 93 1 7 1 1 3	02 SEP 93	PCT	C12N	15/55	X ^o

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAC	EQ	P.E.M. Fine, "The relationship between delayed type hypersensitivity . . . mycobacterial vaccines in man," 1986, 57:275-283, Lepr.Rev., Suppl.
KAC	ER	W.J. Britton et al., "Immunoreactivity of a 70 kD Protein . . . Chromatography," Sep. 1986, 691-708, J.Exp.Medicine
KAC	ES	Ian M. Orme, "The Kinetics of Emergence and Loss. . . Mycobacterium Tuber culosis," 01/01/87, 138:293-298, The Journal of Immunology

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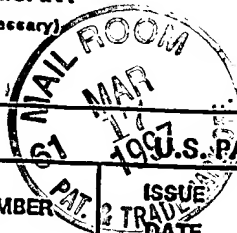
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KAC	FL	WO 93 1 9 0 9 3	30 SEP 93	PCT			YES
KAC	FM	WO 94 0 2 5 0 8	03 FEB 94	PCT	C07K	15/04	X ^a
	FN				C07K	7/06	X
	FO						
	FP						

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAC	FE	R.F. Breiman & M.A. Horwitz, "Guinea Pigs Sublethally Infected. . . Challenge," Mar. 1987, 164:799-811, J. Exp. Med.
	FR	F.M. LaForce, "Immunizations, Immunoprophylaxis. . . Infections," 05/08/87 257(18):2464-2470, JAMA
	FS	A. Worsaae et al., "Allergenic and Blastogenic Reactivity. . . Guinea Pig," Dec. 1987, 55(12):2922-2927, Infection and Immunity

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	GL						
	GM						
	GN						
	GO						
	GP						

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	GQ	P.E.M. Fine, "BCG vaccination against tuberculosis and leprosy," 1988, 44(3):691-703, British Medical Bulletin
KAG	GR	M.A. Horwitz, "Intracellular parasitism," 1988, 1:41-46, Current Opinion in Immunology
KAS	GS	G.W. Comstock, "Identification of an Effective Vaccine Against Tuberculosis," 1988, 138:479-480, Am Rev Respir Dis

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	HL						
	HM						
	HN						
	HO						
	HP						

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	HQ	C. Abou-Zeid et al., "The Secreted Antigens of <i>Mycobacterium tuberculosis</i> . . . Available Antibodies," 1988, 134:531-538, <i>J. of General Microbiology</i>
KAL	HR	A.J. Radford et al., "Cloning of a Species-Specific Antigen of <i>Mycobacterium bovis</i> ," Apr. 1988, 56(4):921-925, <i>Infection and Immunity</i>
KAL	HS	F.M. Collins et al., "Biological Activity of Protein Antigens. . . Filtrate," May 1988, 56(5):1260-1266, <i>Infection and Immunity</i>
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	IL						
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	IN						
	IO						
	IP						

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAC ↓	IQ	I.M. Orme, "Characteristics and Specificity of Acquired Immunologic Memori
	IR	to <i>M. tuberculosis</i> Infection," 05/15/88, 140(10):3589-93, <i>J. Immunol gy</i>
	IS	D. Young et al., "Stress proteins are immune targets in leprosy and tuberculosis," June 1988, 85:4267-4270, <i>Proc.Natl.Acad.Sci.</i>
		K. Matsuo et al., "Cloning and Expression of the <i>Mycobacterium bovis</i> . . .
		Antigen," Sept. 1988, 170(9):3847-3854, <i>Journal of Bacteriology</i>

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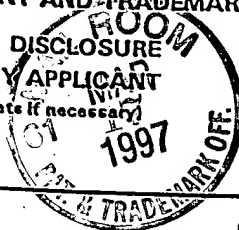
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JK						

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JL						
JM						
JN						
JO						
JP						

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL ↓	JQ	M. Turner et al., "Humoral Immune Response in Human Tuberculosis: . . . Bacillus Calmette-Guérin," Sept. 1988, 26:1714-1719, J. of Clin. Microbiol.
	JR	H.S. Rumschlag et al., "Serological Responses. . . Mycobacterium tuberculosis," Oct. 1988, 26(10):2200-2202, J. of Clin. Microbiol.
	JS	A.J. Crowle, "Immunization against Tuberculosis: What Kind of Vaccine?" Nov. 1988, 56(11):2769-2773, Infection and Immunity

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	KK					

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
KL					YES
KM					
KN					
KO					
KP					

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	KQ	I.M. Orme, "Induction of Nonspecific Acquired Resistance. . . Vaccines," Dec. 1988, 56(12):3310-3312, <i>Infection and Immunity</i>
	KR	M.E. Munk et al., "T cell responses of normal individuals. . . Mycobacteri tuberculosis," 1988, 18:1835-1838, <i>Eur.J.Immunol.</i>
	KS	A. Rees et al., "Specificity of proliferative response. . . mycobacterial antigens," 1988, 18:1881-1887, <i>Eur.J.Immunol.</i>

EXAMINER

Harold A. Gault

DATE CONSIDERED:

4/8/03

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FORM PTO-1449
(Modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

98-080

SERIAL NO.

08/156,358

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

APPLICANT

MARCUS A. HORWITZ

FILING DATE

November 23, 1993

GROUP

1806

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING IF APPROX
LA						
LB						
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLA YES
LL					
LM					
LN					
LO					
LP					

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAC	LQ	V. Bhardwaj & M.J. Colston, "The processing and presentation of mycobacterial. . . monocytes," 1988, 18:691-696, Eur.J.Immunol.
↓	LR	J.M. Grange, "Molecular Biology: New Hopes and Challenges," 1988, 69:1-4 Tubercle
↓	LS	K.M. Citron, "Control and prevention of tuberculosis in Britain," 1988, 44(3):704-716, British Medical Bulletin

EXAMINER

Karen A. Canella

DATE CONSIDERED

4/8/03

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MARCUS A. HORWITZ

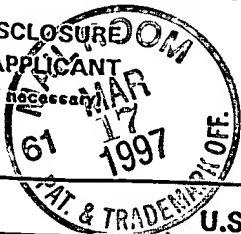
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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	ML						
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OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAC	MQ	"Use of BCG Vaccines . . . : A Joint Statement by the ACIP and the Adv'y Comm. for Elim. of Tuberculosis," 11/4/88, 37(43):663-675, MMWR
KAL	MR	C. Abou-zeid et al., "Characerization of Fibronectin. . . Mycobacterium bovis BCG," Dec. 1988, 56(12):3046-3051, Infection and Immunity
KAL	MS	R.J. Garsia et al., "Homology of the 70-Kilodalton Antigens. . . Eucaryotes," Jan. 1989, 57(1):204-212, Infection and Immunity

EXAMINER

Karen A. Gansella

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES
NL						
NM						
NN						
NO						
NP						

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAC	NQ	A. Mehler & D.B. Young, "Biochemical and antigenic. . . heat-shock protein family," 1989, 3(2):125-130, <i>Molecular Microbiology</i>
KAC	NR	S.J. Blander & M.A. Horwitz, "Vaccination with the Major Secretory Protein . . . Legionnaires' Disease," Mar. 1989, 169:691-705, <i>J. Exp. Med.</i>
KAC	NS	W.S. Jordan, Jr., "Impediments to the Development of Additional Vaccines . . . Next Decade," May-June 1989, II(Supp.3):S603-612, <i>Rev. Infec. Disease</i>

EXAMINER

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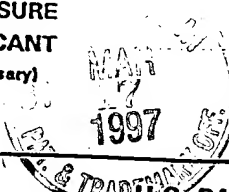
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OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	OQ	M. Borremans et al., "Cloning, Sequence Determination. . .Mycobacterium tuberculosis," Oct. 1989, 57(10):3123-3130, Infection and Immunity
KAL	OR	E. Adams et al., "T cell reactivity. . .household contacts," 1990, 80:206-212, Clin. exp. Immunol.
KAL	OS	H.G. Wiker et al., "Evidence for Three Separate Genes. . .Antigen 85 Complex," Jan. 1990, 58(1):272-274, Infection and Immunity

EXAMINER

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLA YES
	PL						
	PM						
	PN						
	PO						
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OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	PQ	L. De Wit, et al., "Nucleotide sequence. . .Mycobacterium bovis BCG," 1990, 18(13):3995, Nucleic Acids Research
KAL	PR	H.G. Wiker et al., "Localization index for distinction. . .Mycobacterium tuberculosis," 1991, 137:875-884, Journal of General Microbiology
KAL	PS	D.V. Havlir et al., "Human Immune Response to Mycobacterium tuberculosis Antigens," Feb. 1991, 59(2):665-670, Infection and Immunity

EXAMINER

H. A. G. G. G.

DATE CONSIDERED:

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APPLICANT

MARCUS A. HORWITZ

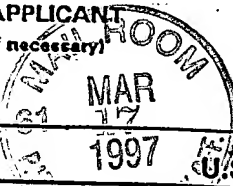
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(37 CFR 1.98(b))



U.S. PATENT DOCUMENTS

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLA YES
	QL						
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OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAC	QQ	B.J. Luft et al., "Immunologic and Structural Characterization. . .Borgerburgdorferi," 04/15/91, 146(8):2776-2782, Journal of Immunology
KAC	QR	P. Launois et al., "T cell response. . .in leprosy patients," 1991, 86:286-290, Clin. exp. Immunol.
KAC	QS	K.R. McKenzie et al., "Sequence and Immunogenicity. . .Mycobacterium leprae," 07/01/91, 147(1):312-319, Journal of Immunology

EXAMINER

Karen A. Gamble

DATE CONSIDERED:

4/8/83

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(37 CFR 1.98(b))

APPLICANT

MARCUS A. HORWITZ

FILING DATE

November 23, 1993

GROUP

1806

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING IF APPROP
RA						
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLAT YES
RL						
RM						
RN						
RO						
RP						

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	RQ	C. Abou-zeid et al., "Genetic and Immunological Analysis. . .Fibronectin-Binding Proteins," Aug. 1991, 59(8):2712-2718, Infection and Immunity
KAL	RR	L. de Menconça Lima, "Nucleotide sequence of the gene coding. . .Mycobacterium leprae," 1991, 19(20):5789, Nucleic Acids Research
KAL	RS	J. Content et al., "The Genes Coding for the Antigen 85 Complexes. . .M.tuberculosis," Sept. 1991, 59(9):3205-3212, Infection and Immunity
EXAMINER	Karen G. Gancila	
EXAMINER:	Initial citation considered. Draw line through citation if not in conformance and r considered. Include copy of this form with next communication to applicant.	
	DATE CONSIDERED 4/8/03	

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(Modified)

DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

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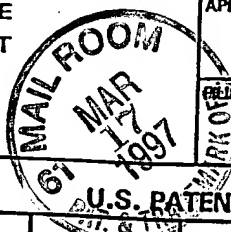
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APPLICANT

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1806

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING IF APPROVED
SA						
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES
SL						
SM						
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SO						
SP						

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	SQ	J.E.R. Thole et al., "Molecular and immunological analysis. . .Mycobacterium leprae," 1992, 6(2):153-163, Molecular Microbiology
KAL	SR	H.P. Godfrey et al., "Modulation of Expression . . .Fibronectin-Binding Proteins," June 1992, 60(6):2522-2528, Infection and Immunity
KAL	SS	M.C.V. Pessolani & P.J. Brennan, "Mycobacterium leprae Produces. . .Antigen 85 Complex," Nov. 1992, 60(11):4452-4459, Infection and Immunity

EXAMINER

Karen A. Camella

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING IF APPROVED
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLAT YES
	TL						
	TM						
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	TO						
	TP						

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	TQ	① A. Rambukkana et al., "Identification and Characterization of Epitopes. . Mycobacterium leprae," Nov. 1992, 60(11):4517-4527, Infection and Immunity.
KAL	TR	P.G. Pal & M.A. Horwitz; "Immunization with Extracellular Proteins. . .Pu. monary Tuberculosis," Nov. 1992, 60(11):4781-4792, Infection and Immunity.
KAL	TS	A. Rambukkana et al., "Heterogeneity of Monoclonal Antibody-React. Epitope . . .Cell Wall Surface," Dec. 1992, 60(12):5172-5181, Infection and Immunity.

EXAMINER

Harin A. Ganga

DATE CONSIDERED

4/8/93

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING IF APPRO
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLA YES
VL					
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VN					
VO					
VP					

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	VQ	P. Launois et al., "IL-6 Production in Response to Purified Mycobacterial Heat-Shock Proteins. . . Leprosy," 1993, 148:283-290, Cellular Immunology
KAL	VR	A. Rambukkana et al., "The Mycobacterial Secreted Antigen 85. . . Armadill Tissues," May 1993, 61(5):1835-1845, Infection and Immunity
KAL	VS	T.F. Rinke de Wit, "The Mycobacterium leprae Antigen 85. . . MPT51 Proteins," Sep. 1993, 61(9):3642-3647, Infection and Immunity

EXAMINER

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAL	UQ	H.G. Wiker & M. Harboe, "The Antigen 85 Complex: a Major Secretion Product of <i>M. tuberculosis</i> ," Dec. 1992, 56(4):648-661, <i>Microbiological Reviews</i>
KAL	UR	A. Drowart et al., "Isoelectrophoretic Characterization of Protein Antigen . . . Antigen 85 Complex," 1992, 36:697-702, <i>Scand. J. Immunol.</i>
KAL	US	S.H.E. Kaufmann & D.B. Young, "Vaccination against Tuberculosis and Leprosy," 1992, 184:208-229, <i>Immunobiol.</i>

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DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
WL					
WM					
WN					
WO					
WP					

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

KAC	WQ	P. Peake et al., "Mechanism of Interaction of the 85B Secreted Protein. . . Fibronectin," Nov. 1993, 61(11):4828-4834, <i>Infection and Immunity</i>
KAC	WR	M.A. Horwitz, "The Immunobiology of <i>Legionella Pneumophila</i> ," Chapter 11, 1989, 141-156, <i>Intracellular Parasitism</i>
	WS	

EXAMINER

Harold G. Gault

DATE CONSIDERED

4/8/03

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

- * Use publication date indicated on the patent or published application. 37 CFR 1.98(b).
- ** The date should include at least the month and year for a foreign application. Notice of April 20, 1992 (1138 O.G. 37-41, 38).
- *** "The place of publication" refers to the name of the journal, magazine or other publication in which the information being submitted was published. Notice of April 20, 1992 (1138 O.G. 37-41, 38).

FORM PTO-1449 (MODIFIED)		ATTY. DOCKET NO. 098-080		SERIAL NO. 08/156/358	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (USE SEVERAL SHEETS IF NECESSARY)				APPLICANT MARCUS A. HORWITZ	
				FILING DATE 11/23/93	
REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS			
OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)					
COPY	1.	Roche, Paul W., et al. "T-Cell Determinants and Antibody Binding Sites on the Major Mycobacterial Secretory Protein MPB59 of <i>Mycobacterium bovis</i> ." <i>Infection and Immunity</i> 62 (December 1994) 5319-26.			
KAC	2.	Horwitz, Marcus A., et al. "Protective Immunity Against Tuberculosis Induced by Vaccination with Major Extracellular Proteins of <i>Mycobacterium tuberculosis</i> ." <i>Proceedings of the National Academy Science USA</i> 92 (February 1995) 1530-34.			
	3.	Silver, Richard F., et al., "T-Cell Epitopes of the 39kD Alpha Antigen of <i>Mycobacterium tuberculosis</i> BCG: Potential for Use in Vaccines and Diagnosis." <i>Journal of Cellular Biochemistry - Molecular Mechanisms in Tuberculosis</i> from the Keystone Symposia on Molecular & Cellular Biology, Supplement 19B, 1995 (February 5 - March 15, 1995) Abstract No. B3-336: 94.			
	4.	Huygen, Kris, et al. "Immunogenicity of a Tuberculosis DNA Vaccine Containing Genes Encoding the Components of the Secreted Antigen 85 Complex." <i>Journal of Cellular Biochemistry - Molecular Mechanisms in Tuberculosis</i> from the Keystone Symposia on Molecular & Cellular Biology, Supplement 19B, 1995 (February 5 - March 15, 1995) Abstract No. B3-408.			
	5.	Orme, Ian M., et al. "T Lymphocytes Mediating Protection and Cellular Cytolysis During the Course of <i>Mycobacterium tuberculosis</i> Infection." <i>The Journal of Immunology</i> 148 January 1992) 189-96.			
	6.	Young, D.B., et al. "Mycobacterial Protein Antigens: A Compilation." <i>Molecular Microbiology</i> 6, no. 2 (1992) 133-45.			
	7.	Lee, Byong-Wha Esther, et al. "Cell-Mediated Immune Responses to the Native 71kD Protein of <i>Mycobacterium tuberculosis</i> in Guinea Pigs and Humans." From the Twenty-Seventh U.S.-Japan Leprosy Research Conference, Tuberculosis Research Conference, and Leprosy/Tuberculosis Symposium (August 4-7, 1992).			
	8.	Horwitz, Marcus A., et al. "Progress in the Development of a Subunit Vaccine Against Tuberculosis." From the Twenty-Ninth U.S.-Japan Leprosy Research Conference, Tuberculosis Research Conference, and Leprosy/Tuberculosis Symposium (August 19-22, 1994).			
	9.	Bloch, Hubert, and William Segal. "Viability and Multiplication of Vaccines in Immunization Against Tuberculosis." <i>American Review of Tuberculosis</i> 7 (1955) 228-48.			
	10.	Palmer, C., et al., "Experimental Studies of Vaccination, Allergy, and Immunity in Tuberculosis." <i>Bulletin of the World Health Organization</i> 12 (1955) 47-62.			
	11.	Dubos, Rehe J., et al. "Antituberculous Immunity Induced in Mice by Vaccination with Living Cultures of Attenuated Tubercle Bacilli." <i>Journal of Experimental Medicine</i> 97 (1953) 207-20.			
	12.	Youmans, G.P. "Acquired Immunity in Tuberculosis." Chap. 8 in <i>Tuberculosis</i> . Edited by G.P. Youmans. Philadelphia: The W.B. Saunders Co. (1979).			
	13.	Weiss, David W., and A.Q. Wells. "Immunization with Dead Tubercle Bacilli." <i>Tubercle</i> 37 (April 1956) 137-40.			
	14.	Meyer, Sven Nissen. "Animal Studies on Effects of BCG, H37Ra and <i>Mycobacterium phlei</i> in Tuberculosis Immunization." <i>Tubercle</i> 37 (January - February 1956) 11-22.			
	15.	Wilson, G.S., and A.A. Miles, "Tuberculosis." Chap. 59 in <i>Topley and Wilson's Principles of Bacteriology and Immunity</i> . 4th ed. 2 vols. London: Edward Arnold (Publishers) Ltd. (1955).			
✓	16.	Kubica, George P., and Lawrence G. Wayne, eds. <i>The Mycobacteria: A Sourcebook</i> . 2 parts. New York: Marcel Dekker, Inc. 33-57.			
EXAMINER	KAC	DATE CONSIDERED <i>Garin H. Gantle 4/8/03</i>			

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449 (MODIFIED)

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

(USE SEVERAL SHEETS IF NECESSARY)

ATTY. DOCKET NO.
098-080SERIAL NO.
08/156,358

APPLICANT

MARCUS A. HORWITZ

FILING DATE
11/23/93GROUP
1802

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

KAC

17.

Infectious Diseases Society of America. *Reviews of Infectious Diseases* 11. Supplement 2. Chicago: The University of Chicago Press (March - April 1989).

- a) Styblo, Karel. "Overview and Epidemiologic Assessment of the Current Global Tuberculosis Situation with an Emphasis on Control in Developing Countries." S339-46.
- b) Grosset, Jacques H. "Present Status of Chemotherapy for Tuberculosis." S347-52.
- c) Fine, Paul E.M. "The BCG Story: Lessons from the Past and Implications for the Future." S353-9.
- d) Pio, Antonio. "Impact of Present Control Methods on the Problem of Tuberculosis." S360-5.
- e) Stead, William W. "Pathogenesis of Tuberculosis: Clinical and Epidemiologic Perspective." S366-8.
- f) Dannenberg, Arthur M., Jr. "Immune Mechanisms in the Pathogenesis of Pulmonary Tuberculosis." S369-78.
- g) Quinn, Thomas C. "Interactions of the Human Immunodeficiency Virus and Tuberculosis and the Implications for BCG Vaccination." S379-84.
- h) Smith, Donald W., and Ernst H. Wiegshauss. "What Animal Models Can Teach Us about the Pathogenesis of Tuberculosis in Humans." S385-93.
- i) De Vries, Rehe R.P. "Regulation of T Cell Responsiveness Against Mycobacterial Antigens by HLA Class 2 Immune Response Genes." S400-3.
- j) Jacobs, William R., Jr., et al. "Mycobacteriophage Vector Systems." S404-10.
- k) Patel, Rubina J., et al. "A Cloned DNA Fragment for Identification of *Mycobacterium tuberculosis*. S411-9.
- l) Brennan, Patrick J. "Structure of Mycobacteria: Recent Developments in Defining Cell Wall Carbohydrates and Proteins." S420-30.
- m) Young, Douglas B., and Angela Mehler. "Serology of Mycobacteria: Characterization of Antigens Recognized by Monoclonal Antibodies." S431-5.
- n) Piessens, Willy F. "Introduction to the Immunology of Tuberculosis." S436-42.
- o) Lamb, Jonathan R., et al. "Identification of Mycobacterial Antigens Recognized by T Lymphocytes. S443-7.
- p) Kaufman, Stefan H.E. "In Vitro Analysis of the Cellular Mechanisms Involved in Immunity to Tuberculosis." S448-54.
- q) Ellner, Jerrold J. and Robert S. Wallis. "Immunologic Aspects of Mycobacterial Infections." S455-9.
- r) Bloom, Barry R. "New Approaches to Vaccine Development." S460-6.
- s) Sensi, Piero. "Approaches to the Development of New Antituberculosis Drugs." S467-70.
- t) Daniel, Thomas M. "Rapid Diagnosis of Tuberculosis: Laboratory Techniques Applicable in Developing Countries." S471-8.
- u) Skamene, Emil. "Genetic Control of Susceptibility to Mycobacterial Infections." S394-9.
- v) Parenti, Francesco. "New Experimental Drugs for the Treatment of Tuberculosis." S479-83.
- w) Wiegshauss, Ernst H., and Donald W. Smith. "Evaluation of the Protective Potency of New Tuberculosis Vaccines." S484-90.

18.

Maugh, Thomas H., 2d. "Promising Tests Reported for New TB Vaccine." *Los Angeles Times*, February 28, 1995, p. 1, col. 3.

19.

Blander, Steven J., and Marcus A. Horwitz. "Vaccination with *Legionella pneumophila* Membranes Induces Cell-mediated and Protective Immunity in a Guinea Pig Model of Legionnaires' Disease." *Journal of Clinical Investigation* 87 (March 1991) 1054-9.

20.

Horwitz, Marcus A. "Characterization of Avirulent Mutant *Legionella pneumophila* That Survive but Do Not Multiply within Human Monocytes." *Journal of Experimental Medicine* 166 (November 1987) 1310-28.

21.

Berdal, Bjørn P., et al. "Demonstration of Extracellular Chymotrypsin-Like Activity from Various *Legionella* Species." *Journal of Clinical Microbiology* 16 (September 1982) 452-7.

22.

Müller, Hans E. "Proteolytic Action of *Legionella pneumophila* on Human Serum Proteins." *Infection and Immunity* 27 (January 1980) 51-3.

23.

Horwitz, Marcus A., and Samuel C. Silverstein. "Legionnaires' Disease Bacterium (*Legionella pneumophila*) Multiplies Intracellularly in Human Monocytes." *Journal of Clinical Investigation* 66 (September 1980) 441-50.

EXAMINER

KAC

DATE CONSIDERED.

Harmon A. Gancella 4/8/03

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449 (MODIFIED)		ATTY. DOCKET NO. 098-080	SERIAL NO. 08/156,358
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT MARCUS A. HORWITZ	
		FILING DATE 11/23/93	GROUP 1802
REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS	
OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)			
KAC	24.	Horwitz, Marcus A. "Cell-mediated Immunity in Legionnaires' Disease." <i>Journal of Clinical Investigation</i> 71 (June 1983) 1686-97.	
	25.	Blander, Steven J., et al. "A Live Avirulent Mutant <i>Legionella pneumophila</i> Vaccine Induces Protective Immunity against Lethal Aerosol Challenge." <i>Journal of Clinical Investigation</i> 83 (March 1989) 810-5.	
	26.	Blander, Steven J., and Marcus A. Horwitz. "Major Cytoplasmic Membrane Protein of <i>Legionella pneumophila</i> , a Genus Common Antigen and Member of the hsp 60 Family of Heat Shock Proteins, Induces Protective Immunity in a Guinea Pig Model of Legionnaires' Disease." <i>Journal of Clinical Investigation</i> 91 (February 1993) 717-23.	
	27.	Blander, Steven J., and Marcus A. Horwitz. "Vaccination with the Major Secretory Protein of <i>Legionella</i> Induces Humoral and Cell-mediated Immune Responses and Protective Immunity across Different Serogroups of <i>Legionella pneumophila</i> and Different Species of <i>Legionella</i> ." <i>Journal of Immunology</i> 147 (July 1991) 285-91.	
↓	28.	Blander, Steven J., et al. "An Immunoprotective Molecule, the Major Secretory Protein of <i>Legionella pneumophila</i> , Is Not a Virulence Factor in a Guinea Pig Model of Legionnaires' Disease." <i>Journal of Clinical Investigation</i> 86 (September 1990) 817-24.	
EXAMINER	KAC	DATE CONSIDERED	April 4, 2003 4/8/03

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449 (MODIFIED)

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION
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ATTY. DOCKET NO.
115-066SERIAL NO.
08/568,357

APPLICANT

MARCUS A. HORWITZ

FILING DATE
12/06/95

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

KAC	1.	Allison, A. C., and N. E. Byars. "An Adjuvant Formulation That Selectively Elicits the Formation of Antibodies of Protective Isotypes and of Cell-Mediated Immunity." <i>Journal of Immunological Methods</i> 95 (1986) 157-68.
	2.	Andersen, P., and I. Heron. "Specificity of a Protective Memory Immune Response against <i>Mycobacterium tuberculosis</i> ." <i>Infection and Immunology</i> 61 (1993) 844-51.
	3.	Belisle, J. T., et al. "Identification of a Mycolyltransferase from <i>Mycobacterium tuberculosis</i> and the Coincident Definition of the Physiological Function of Antigen 85B." In the program from the <i>Thirtieth U.S.-Japan Tuberculosis Research Conference, Leprosy Research Conference and Tuberculosis/Leprosy Symposium</i> . U.S.-Japan Cooperative Medical Science Program. Ft. Collins, Colorado (July 19-21, 1995) 212-6.
	4.	Chen, E. Y., and P. H. Seeburg. "Supercoil Sequencing: A Fast and Simple Method for Sequencing Plasmid DNA." <i>DNA</i> 4 (1985) 165-70.
	5.	Clemens, D. L., and M. A. Horwitz. "Characterization of the <i>Mycobacterium tuberculosis</i> Phagosome and Evidence That Phagosomal Maturation Is Inhibited." <i>Journal of Experimental Medicine</i> 181 (1995) 257-70.
	6.	Feller, D. C., and V. F. de la Cruz. "Identifying Antigenic T-Cell Sites." <i>Nature</i> 349 (1991) 720-1.
	7.	Grunstein, M., and D. S. Hogness. "Colony Hybridization: A Method for the Isolation of Cloned DNAs That Contain a Specific Gene." <i>Proceedings of the National Academy of Science USA</i> 72 (1975) 3961-6.
	8.	Harth, Günter, et al. "Glutamine Synthetase of <i>Mycobacterium tuberculosis</i> : Extracellular Release and Characterization of Its Enzymatic Activity." <i>Proceedings of the National Academy of Science USA</i> 91 (1994) 9342-6.
	9.	Hatfull, G. F., and G. J. Sarkis. "DNA Sequence, Structure and Gene Expression of Mycobacteriophage L5: A Phage system for Mycobacterial Genetics." <i>Molecular Microbiology</i> 7 (1993) 395-405.
	10.	Huygen, Kris, et al. "Specific Lymphoproliferation, Gamma Interferon Production, and Serum Immunoglobulin G Directed against a Purified 32 kDa Mycobacterial Protein Antigen (P32) in Patients with Active Tuberculosis." <i>Scandinavian Journal of Immunology</i> 27 (1988) 187-94.
	11.	Kitaura, H., et al. "Cloning, Sequencing and Expression of the Gene for Alpha Antigen from <i>Mycobacterium intracellulare</i> and Use of PCR for the Rapid Identification of <i>Mycobacterium intracellulare</i> ." <i>Biochemical and Biophysical Research Communications</i> 196 (1993) 1466-73.
	12.	Kremer, L., et al. "Analysis of the <i>Mycobacterium tuberculosis</i> 85A Antigen Promoter Region." <i>Journal of Bacteriology</i> 177 (1995) 642-53.
	13.	Kyte, J., and R. F. Doolittle. "Simple Method for Displaying the Hydropathic Character of a Protein." <i>Journal of Molecular Biology</i> 157 (1982) 105-32.
	14.	Launois, P., et al. "T-Cell-Epitope Mapping of the Major Secreted Mycobacterial Antigen Ag85A in Tuberculosis and Leprosy." <i>Infection and Immunity</i> 62 (1994) 3679-87.
	15.	Lee, B.-Y., and M. A. Horwitz. "Identification of Macrophage and Stress-Induced Proteins of <i>Mycobacterium tuberculosis</i> ." <i>Journal of Clinical Investigation</i> 96 (1995) 245-9.
✓	16.	Lee, T. D., and S. Vemuri. "MacProMass: A Computer Program to Correlate Mass Spectral Data to Peptide and Protein Structures." <i>Biomedical and Environmental Mass Spectroscopy</i> 19 (1990) 639-45.

EXAMINER

KAC

DATE CONSIDERED

Karen A. Gamble

4/8/03

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

(USE SEVERAL SHEETS IF NECESSARY)

SERIAL NO.
08/568,357

MARCUS A. HORWITZ

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

- KAC

17.	Matsuo, K., et al. "Cloning and Expression of the <i>Mycobacterium bovis</i> BCG Gene for Extracellular α Antigen." <i>Journal of Bacteriology</i> 170 (1988) 3847-54.
18.	Prünow, D. "Nucleotide Sequence of an RNA Polymerase Binding Site at an Early T7 Promoter." <i>Proceedings of the National Academy of Science USA</i> 72 (1975) 784-8.
19.	Sanger, F., et al. "DNA Sequencing with Chain-Terminating Inhibitors." <i>Proceedings of the National Academy of Science USA</i> 74 (1977) 5463-7.
20.	Shine, J., and L. Dalgarno. "The 3'-Terminal Sequence of <i>Escherichia coli</i> 16S Ribosomal RNA: Complementarity to Nonsense Triplets and Ribosome Binding Sites." <i>Proceedings of the National Academy of Science USA</i> 71 (1974) 1342-6.
21.	Shinnick, T. M. "The 65-Kilodalton Antigen of <i>Mycobacterium tuberculosis</i> ." <i>Journal of Bacteriology</i> 169 (1987) 1080-8.
22.	Yanisch-Perron, C., et al. "Improved M13 Phage Cloning Vectors and Host Strains: Nucleotide Sequences of the M13mp18 and pUC19 Vectors." <i>Gene</i> 33 (1985) 103-19.
23.	Von Heijne, G. "A New Method for Predicting Signal Sequence Cleavage Sites." <i>Nucleic Acids Research</i> 14 (1986) 4683-90.

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EXAMINER

DATE CONSIDERED

Karen A. Gamella 4/8/03

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1806

4/8/03

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FORM PTO-1449
(Rev. 2-32)

**U.S.DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE**

ATTY. DOCKET NO. 112-272

SERIAL NO. 08/551,149

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use several sheets if necessary)

APPLICANT.

MARCUS A. HORWITZ

FILING DATE October 31, 1995	GROUP
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		YES	NO												
	AL														
	AM														
	AN														
	AO														
	AP														

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CITATION DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)			
KAL	AR		Roche, Paul W., et al., "T-Cell Determinants and Antibody Binding Sites on the Major Mycobacterial Secretory Protein MPB59 of <i>Mycobacterium bovis</i> ", <i>Infection and Immunity</i> , December 1994, Vol. 62, No. 12, Pages 5319-5326
KAL	AS		<i>Journal of Cellular Biochemistry</i> , "Molecular Mechanisms in Tuberculosis", Abstract Supplement 19B, 1995, February 5-March 15, 1995, page 90
	AT		

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DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

GROUP	1802
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use several sheets if necessary)

APPLICANT

MARCUS A. HORWITZ

FILING DATE

November 23, 1993

GROUP

1802

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
KAL	BR	"Mycobacterial Lipase Inhibitor: A New Lipase Inhibitor Isolated from Culture Filtrate of <i>Mycobacterium tuberculosis</i> ," Kiyotani, K., et al., CHEMICAL ABSTRACTS, Vol. 100, No. 23, June 4, 1984, p. 252, col. 1, Abstract No. 187918d
		"Affinity Purification of Beta Antigen of <i>Mycobacterium Tuberculosis</i> by Using Specific Monoclonal Antibody and Its Application for the Diagnosis of Tuberculosis Meningitis by Elisa," Myung, Seok J., et al., CHEMICAL ABSTRACTS, Vol. 112, No. 19, May 7, 1990, p. 534, col. 2, Abstract No. 176521r
KAL	BS	"Cloning and Sequencing of the Gene for Alpha Antigen from <i>Mycobacterium avium</i> and Mapping of B-Cell Epitopes," Ohara, Maoya, et al., INFECTION AND IMMUNITY, Vol. 61, No. 4, April 1993, pp. 1173-79
KAL	BT	
EXAMINER		

EXAMINER

DATE CONSIDERED

418/03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEI 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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